

1-32 (Canceled)

We claim:

33. (New) A medical device for use with a stand, the device comprising a connector, an impulse treatment head, a stylus, and a display, wherein:

(i) the connector pivotally engages the impulse treatment head and is operable to rotate about a longitudinal axis of the connector and to move the impulse treatment head longitudinally, thereby providing the impulse treatment head with multiple degrees of freedom;

(ii) the impulse treatment head comprises an actuator for driving the stylus in a linear direction;

(iv) the stylus:

a) is slidably located in the impulse treatment head;

b) extends from the impulse treatment head so as to contact a patient;

c) is coupled to the actuator and

d) is collapsible upon meeting resistance of a predetermined force value;  
and

(v) the display is for inputting stylus alignment information and for displaying alignment of the stylus with the patient.

34. (New) The medical device of claim 33 wherein the connector is further configured to tilt from a horizontal plane.

35. (New) The medical device of claim 34, wherein the actuator is a voice coil actuator.

36. (New) The medical device of claim 35 wherein the voice coil actuator is operative to transmit sinusoidal impulse waveforms along a linear axis of the stylus.

37. (New) The medical device of claim 36 further comprising a rotator for driving the stylus in a rotational direction, wherein the rotator is in mechanical communication with the stylus.

38. (New) The medical device of claim 37 wherein the collapsible stylus comprises a safety coupling.

39. (New) The medical device of claim 38, wherein the display is a touchscreen mounted on a top of the impulse treatment head.

40. (New) A medical device for use with a stand, the device comprising an arm, an impulse treatment head, a stylus, and a display, wherein:

(i) the arm is configured for engagement with a stand, is rotatable about its own axis and is moveable horizontally, and comprises a yoke, wherein the yoke pivotally engages the impulse treatment head, thereby permitting multiple degrees of freedom between the impulse treatment head and a stand;

(ii) the impulse treatment head comprises a voice coil actuator for driving the stylus in a linear direction and a rotator for driving the stylus in a rotational direction;

(iv) the stylus:

a) is slidably located in the impulse treatment head;

b) extends from the impulse treatment head so as to contact a patient;  
and

c) is in mechanical communication with the actuator and rotator; and

(v) the display is for inputting stylus alignment information and for displaying alignment of the stylus with the patient.

41. (New) The medical device of claim 40 wherein the connector is further configured to tilt from a horizontal plane.

42. (New) The medical device of claim 41 wherein the voice coil actuator is operative to transmit sinusoidal impulse waveforms along a linear axis of the stylus.

43. (New) The medical device of claim 42, wherein the rotator further comprises a voice coil actuator operative to transmit rotational sinusoidal impulse waveforms to the stylus.

44. (New) The medical device of claim 43, including a microprocessor programmed to recognize correct alignment, and to permit operation to commence only when proper alignment is achieved.

45. (New) The medical device of claim 44 further comprising an external computer coupled to the medical device, the external computer for entering morphological data of aspects of the patient and transferring these data points from the external computer to the medical device.

46. (New) A medical device comprising a connector, an impulse treatment head, a display and a stylus,

wherein the connector is for connecting the device to a stand, such that in use, the impulse

treatment head has multiple degrees of freedom relative to the stand and is configured to produce

impulses that drive the stylus in sinusoidal waves and wherein the display is for inputting stylus

alignment information and for displaying alignment of the stylus with a patient.

47. (New) A method of treating a patient in need thereof comprising:

(i) collecting morphological data on the patient;

(ii) inputting the data into a medical device;

(iii) delivering sinusoidal waves to the patient using the medical device.

48. (New) The method of claim 47 wherein the morphological data are X-ray results.

49. (New) The method of claim 48 wherein the morphological data are caliper measurements.

50. (New) The method of claim 49 further comprising: (iv) collecting X-ray results following the treatment.